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# SUMMARY OF CONFIRMED INFECTIONS

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September 2010, Vol. 15, No. 9

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The September 2010 issue presents the laboratory diagnosis of some of the infectious diseases and the reference Microbiology and Virology work done in this laboratory during August 2010 and new cases of syphilis in Milwaukee during August 2010. Information on the laboratory diagnosed mycobacterial infections in Wisconsin during July 2010 was not available at the time of this report.

### Syphilis

Test	Total	Test	Total
RPR Reactive	2	TPPA Reactive	6
VDRL Reactive	21	Darkfield Positive	0

### New Cases of Syphilis:

Stage	Number of Cases	
	August 2010	August 2009
Primary syphilis	0	1
Secondary syphilis	0	6
Early latent	0	2
Late latent	0	1
Total	0	10

Source: Wisconsin Division of Health

### Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Decreased Susceptible (DS) / Resistant (R) Antibiotics			
	Ciprofloxacin	Cefixime	Spectinomycin	Azithromycin
25	2 (R)	0	0	0

### Isolates Other Than *N. gonorrhoeae*

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	9	<i>Mycoplasma hominis</i>	Genital	0

**Enteric Parasites Identified**

Age	Sex	Parasite
19	M	<i>Blastocystis hominis</i>
64	F	<i>Blastocystis hominis</i>
32	F	<i>Blastocystis hominis</i>
27	F	<i>Blastocystis hominis</i>
23	F	<i>Blastocystis hominis</i>
8	F	<i>Blastocystis hominis</i>
		<i>Entamoeba coli</i>
41	M	<i>Blastocystis hominis</i>
		<i>Entamoeba coli</i>
14	M	<i>Blastocystis hominis</i>
		<i>Entamoeba coli</i>
		<i>Entamoeba histolytica/Entamoeba dispar</i>
6	M	<i>Blastocystis hominis</i>
		<i>Giardia lamblia</i>
		<i>Iodamoeba buetschlii</i>
7	F	<i>Blastocystis hominis</i>
		<i>Giardia lamblia</i>
		<i>Iodamoeba buetschlii</i>
9	F	<i>Cryptosporidium</i> species
9	F	<i>Cryptosporidium</i> species
26	F	<i>Entamoeba coli</i>
42	F	<i>Entamoeba coli</i>
		<i>Entamoeba nana</i>
		<i>Iodamoeba buetschlii</i>
40	M	<i>Entamoeba coli</i>
		<i>Iodamoeba buetschlii</i>
		<i>Trichuris trichiura</i>
19m	F	<i>Giardia lamblia</i>
22m	M	<i>Giardia lamblia</i>
4	F	<i>Giardia lamblia</i>
6	F	<i>Giardia lamblia</i>
29	M	<i>Giardia lamblia</i>
34m	M	<i>Giardia lamblia</i>
		<i>Trichuris trichiura</i>
4	M	<i>Giardia lamblia</i>
		<i>Trichuris trichiura</i>
11	M	<i>Iodamoeba buetschlii</i>

12	M	<i>Schistosoma mansoni</i>
16	M	<i>Trichuris trichiura</i>
19	M	<i>Trichuris trichiura</i>
35	F	<i>Trichuris trichiura</i>

### Mycobacterial Infections

Age	Sex	Test Results			Identification
		Sputum Smear	Culture	DNA Probe	
34	M	-	+	ND	<i>M. lentiflavum</i>
55	M	-	+	ND	<i>M. fortuitum</i>
		-	+	+	<i>M. avium</i> complex
39	M	-	+	+	<i>M. avium</i> complex
35	M	+	+	+	<i>M. avium</i> complex
64	F	+	+	+	<i>M. tuberculosis</i> complex

ND = Not done

### Reference Cultures

Age	Sex	Source	Identification
10	M	Surface wound	<i>Aeromonas hydrophila</i>
61	M	Whole Blood	<i>Brevundimonas vesicularis</i>
23	F	Genital	<i>Neisseria gonorrhoeae</i>
85	M	Lung tissue	<i>Nocardia asteroides</i> complex
13	M	Stool	<i>Plesiomonas shigelloides</i>
10	M	Stool	<i>Plesiomonas shigelloides</i>
17	F	Stool	<i>Plesiomonas shigelloides</i>
10m	M	Stool	<i>Plesiomonas shigelloides</i>
39	M	Stool	<i>Salmonella</i> Enteritidis
60	M	Stool	<i>Salmonella</i> Enteritidis
18	M	Stool	<i>Salmonella</i> Meleagridis
48	F	Stool	<i>Salmonella</i> Newport
10m	F	Stool	<i>Salmonella</i> Typhimurium
27m	M	Stool	<i>Salmonella</i> Schwarzengrund
6	F	Stool	<i>Shigella flexneri</i> type 1
30	M	Stool	<i>Vibrio parahaemolyticus</i>

### Virus Isolations from Clinical Specimens

Age	Sex	Source	Symptoms	Agent
19	M	Throat	Sore throat, URI, fever	Herpes Simplex Type-1

### Herpes Simplex Virus Isolations

Agent	Number of Isolates
Herpes Simplex type 1	5
Herpes Simplex type 2	10

### Molecular Amplification and PCR

Agent	Method	Tested	Positive	% Positive
Enterovirus	RT-PCR	1	0	0%
Influenza	RT-PCR	6	0	0%
<i>Chlamydia trachomatis</i>	ProbeTec	605	94	15.5%
<i>Neisseria gonorrhoeae</i>	ProbeTec / GenProbe	787	60	7.6%

**DNA Sequencing:** The MHD laboratory uses 16S rRNA and the D2 region of the 26S rRNA genes for DNA sequence-based microbial identification of selective reference bacteria and fungal isolates.

Reference Microbe	Target gene	Final Identification
Bacteria	16S rRNA	<i>Aminobacter</i> species
Bacteria	16S rRNA	<i>Brevundimonas intermedia</i>
Bacteria	16S rRNA	<i>Nocardia farcinica</i>
Bacteria	16S rRNA	<i>Plesiomonas shigelloides</i>
Bacteria	16S rRNA	<i>Streptomyces afganiensis</i>
Bacteria	16S rRNA	<i>Vibrio alginolyticus</i>
Fungus	D226S rRNA	<i>Aspergillus versicolor</i>
Fungus	D226S rRNA	<i>Oxyporos corticola</i>